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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/665,165	09/19/2000	Kohei Abe	197336US2S 5491	
22850	7590 03/23/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			DANG, KHANH NMN	
	DUKE STREET EXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
	·		2111	10
			DATE MAILED: 03/23/2004	17

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summary	09/665,165	ABE, KOHEI				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication on	Khanh Dang	2111				
The MAILING DATE of this communication app Period for Reply		•				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply with, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be till y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This 3) ☐ Since this application is in condition for allowa	Responsive to communication(s) filed on <u>02 January 2004</u> .  This action is <b>FINAL</b> . 2b) This action is non-final.  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdray</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-18 is/are rejected.</li> <li>7)  Claim(s) 19-21 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). sjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

Application/Control Number: 09/665,165

Art Unit: 2111

#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Hauser et al.

With regard to claims 1 and 8, Hauser et al. discloses a queue control device for ATM comprising a "first storage area" (cell buffer 128, Fig. 4) for storing a first queue (see Fig. 6, for example) including a plurality of "elements" (cells) having an "address" (cell number) specifying the next "element" (cell), and a "second queue" (see Fig. 6, for example) including a plurality of "elements" (cells) having an "address" (cell number) specifying the next "element" (cell); a "second storage area" (RAM 132, 1140, 2142) for storing "first pointer information" (queue 1 descriptor, Fig. 6, for example) and "second pointer information" (queue 2 descriptor, Fig. 6, for example), the "first pointer information" being a "head address" (head) in the first queue, and the "second pointer information" being a "tail address" (tail, Fig. 6); and a "controller" (queue manager 308,

Art Unit: 2111

Fig. 4, for example) for controlling the "first and second storage areas" (cell buffer 128 and pointer RAM 132, 1140, 2142) to set not only an address specifying the head element in the second queue in the tail element in the first queue stored in cell buffer 128 but also an address specifying the tail element in the first queue in the tail element in the second queue and for controlling the first and second queues according to queue 1 and 2 descriptors stored in pointer RAM 132, 1140, 2142. In another words, in Hauser et al., one gueue number is able to point to a second gueue number, and the list descriptor holds the queue number of the first entry, or head, of the list and the last entry, or tail, of the list. The queue number of the head of the list is used to index into the list pointers and read the queue number of the second entry in the list. Likewise, the queue number of the second entry is used to index into the list pointers and read the queue number of the third entry, and so on until the queue number read is equal to the queue number of the last entry, or tail of the list. Therefore, it is clear that in Hauser et al., in order to add a queue to a list, the queue number of the queue being added to the list is written to the list pointer location indexed by the present tail of the list. That is when queue 2 is added for immediate transmission to the list, the address of the head of queue 2 is written to the present tail of queue 1. Also, since queue 1 and queue 2 share the same transmission channel and buffer pool 128, the address specifying the tail of queue 1 is also the address of the tail of queue 2 after all cells of queue 1 are transmitted out. The queue manager 308 controls queue 1 and queue 2 according to the head and tail stored in RAM 132, 1140, 2142.

With regard to claims 2, 3, 9, and 10, in Hauser et al., it is clear that when queue 1 is not present the address of the head of queue 2 is stored in RAM 132, 1140, 2142 is set in queue 1 descriptor, since queue 1 and queue 2 share the same transmission channel and pool buffer. In addition, it is clear that an indicator must be placed in the address of the tail of queue 2 indicating that the tail of queue 2 is the last one to be transmitted in the absence of queue 1. And vise versa.

With regard to claims 5 and 11, if there is no other special priority is set forth in the cell and list managers, and in view of the work flow mentioned above, it is clear that queue 1 is assigned a higher priority for transmission.

With regard to claims 6 and 12, it is clear that with any known ATM (Asynchronous Transfer Mode) including the ATM used in Hauser et al., cell buffer can store a plurality of virtual channel according to each of the cells.

With regard to claims 7 and 13, the cell manager 308 is connected to the cell processor 302, which produce virtual channels.

With regard to claims 14-18, one practicing the queue control device set forth by Hauser et al. and specifically discussed above would have performed the same steps recited in claims 14-18.

## Response to Arguments

Applicant's arguments filed 1/02/2004 have been fully considered but they are not persuasive.

Application/Control Number: 09/665,165

Art Unit: 2111

At the outset, Applicants are reminded that claims subject to examination will be given their broadest reasonable interpretation consistent with the specification. *In re Yamamoto*, 740 F2.d 1569, 1571, 222 USPQ 934, 936 (Fed. Cir. 1984). Applicants are also reminded that claimed subject matter not the specification, is the measure of the invention. Disclosure contained in the specification can not be read into the claims for the purpose of avoiding the prior art. *In re Sporck*, 55 CCPA 743, 386 F.2d, 155 USPQ 687 (1986).

With this in mind, the discussion will focus on how the terms and relationships thereof in the claims are met by the references. Response to any limitations that are not in the claims or any arguments that are irrelevant and/or do not relate to any specific claimed language will not be warranted.

### The Hauser et al. rejection:

With regard to claims 1, 8, and 14 (with claims 2-7, 9-13, and 15-18 stand or fall together), Applicants argued that, "Figure 6 of Hauser et al. depicts queues 1, 2, and 3 as being independent from one another" and that "Hauser et al. does not clearly describe connecting of a plurality of queues." Contrary to Applicants' argument, since queue 1 and queue 2 share the same transmission channel and buffer pool 128, the address specifying the tail of queue 1 is also the address of the tail of queue 2 after all cells of queue 1 are transmitted out. From at least Fig. 6, for example, it is clear that the head address of queue 2 is stored in a tail element of queue 1, and the tail address of queue 1 is stored in a tail element of queue 2. In another word, in Hauser et al., queue

Application/Control Number: 09/665,165

Art Unit: 2111

165 Page 6

1, 2, and 3 are operatively "connected" for sequential transmission over the same

transmission channel. It is also clear that in Hauser et al., in order to add a queue to a

list, the queue number of the queue being added to the list is written to the list pointer

location indexed by the present tail of the list. That is when queue 2 is added for

immediate transmission to the list, the address of the head of queue 2 is written to the

present tail of queue 1.

Allowable Subject Matter

Claims 19-21 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims.

Any inquiry concerning this communication should be directed to Khanh Dang at

telephone number 703-308-0211.

Khanh Dang

Primary Examine